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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/549,805	09/19/2005	Masayuki Imai	ISH-0235	7888	
	7590 11/15/2007 MAN & GRAUER PLLC		EXAM	INER	
LION BUILDING 1233 20TH STREET N.W., SUITE 501			WILSON, G	WILSON, GREGORY A	
WASHINGTO			ART UNIT	ART UNIT PAPER NUMBER	
			3749	· · · · · ·	
	•		MAIL DATE	DELIVERY MODE	
			11/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/549,805	IMAI, MASAYUKI	
Office Action Summary	Examiner	Art Unit	
	Gregory A. Wilson	3749	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	lress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the strength of the may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was really reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 19 Se	eptember 2005.		
,	action is non-final.		
3) Since this application is in condition for allowar closed in accordance with the practice under E	nce except for formal matters, pro		merits is
Disposition of Claims	•		
4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine	ır.		
10) The drawing(s) filed on 19 September 2005 is/a	are: a)⊠ accepted or b)⊡ objec	ted to by the Exam	niner.
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of: 1.☑ Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document			•
3. Copies of the certified copies of the prior		ed in this National :	Stage
application from the International Bureau		a d	
* See the attached detailed Office action for a list	of the certified copies not receive	eu.	• •
•			
Attachment(s)	4) 🗖 latan da ()	(PTO 413)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/19/05.	5) Notice of Informal F 6) Other:		

Application/Control Number: 10/549,805

Art Unit: 3749

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Kreiser et al (6,953,338). Kreiser et al discloses a wafer support tool (75) including a plurality of wafer support members (quartz pins 8) formed by working a cylindrical body, for supporting a wafer to be heat treated, a quartz support member holder (60) for holding

Application/Control Number: 10/549,805

Art Unit: 3749

the wafer support members, wherein the wafer support members each has a contact portion (conical tip (11)) with the wafer wherein the contact portion can be spherical or balls (column 3, lines 62-67) and is also movable relative to the support member holder (it can be installed or removed), the support member holder is a pin holder for holding the pin and the pin is fitted in a plurality of pinholes (64) formed in the pin holder, Figure 11 shows a teaching of the pinholes being slit shaped and arranged radially from the center, the pin holder is disc-shaped (SEE Figure 14a) and a circular pinhole (62) is formed in the center position thereof; with regard to claim 13, cylindrical pins (8) are placed in pinholes and are rotatable axially within the supporting holes and inherently will undergo frictional movement with contact with the wafer, with regard to claim 19, support poles (70) for holding the plural support member holders and bases for holding the support poles (quartz) (SEE Figures 14a & 14b), the support member holders (quartz) are removable from the support poles.

Claims 1-3 and 13-18 are rejected under 35 U.S.C. 102(b) as being anticipated by JPO (02139935A). The JPO reference discloses a wafer support tool (1) for heat treatment and includes a plurality of disc-shaped wafer support members in the form of balls (11) for supporting a wafer to be heat treated; and a support member holder (1) for holding the wafer support members (SEE Figure 1), the balls (11) are rotatable within the structure of the support member holder and are inherently rotatable by friction force with the wafer (3) to be heated. Figure 2 shows a teaching of a hole to accommodate the rotatable body.

Application/Control Number: 10/549,805

Art Unit: 3749

Claims 1-8 and 13-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawamura et al (7,204,887). Kawamura et al discloses a quartz wafer support tool (SEE Figure 22) for heat treatment and includes a plurality of quartz wafer support members (12) for supporting a wafer to be heat treated, a support member holder (11) for holding the wafer support members, the spherically shaped wafer support members each has a contact portion with the wafer, and are movable (rotatable) relative to the support member holder, Kawamura et al also discloses (in column 16, lines 6-7) that the support members can be pin shaped (132) formed by working a cylindrical body and the support member holder is a pin holder for holding the pin and the pin is fitted in a plurality of pinholes (SEE Figure 22) formed in the pin holder and is therefore removable, and the pinholes are formed radially from the center of the disc-shaped support member holder. With regard to claim 19, Kawamura et al discloses support poles (132) for holding the plural support member holders and bases (21) for holding the support poles, the structures are removable from each other.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve McAllister can be reached on (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 5

Application/Control Number: 10/549,805

Art Unit: 3749

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GREGORY WILSON PRIMARY EXAMINE

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November 7, 2007